Rahe, Beattie, Shelton

PRELIMINARY LAKE SURVEY DATA FORM

Name *Long Lake* Date *7-22-78 and 7-23-78*

Code No. *101-80-05*

Location *North End of Revilla Island* Weather Conditions *Overcast*

I. Physical Data

1. Lake bathymetry a) Completed /X/ b) No. of Transects *8*
   #1-13.5, #2-13.0
2. Temp.
   a) Surface Inlet °C. *#3-14.0*
   b) Surfact Outlet °C.
   c) Bottom *(46')* °C. *4.5*
   d) Mid-depth *(24')* °C. *5.5*
   e) Air °C.
3. Temp. Profile Taken /Yes/
   Location *See map*
4. Secchi disc reading (Time *11:00 a.m.*)

Location	Out Depth	In Depth	Overage
See map	*15'*	*14' 2"*	*14' 7"*

5. Discharge cfs
   (Measured at tidewater)

Inlet	*#1 - 2.3*	*5.5' wide, 5" deep, I.0 ft/sec.*
	#2 - 7.1	*14' wide, 5" deep, 1.2 ft/sec.*
	#3 - 28.0	*40' wide, 6" deep, 1.4 ft/sec.*
Outlet	*75.0*	*30' wide, 12" deep, 2.5 ft/sec.*

II. Chemical Data

1. Dissolved Oxygen *#1-9.5, #2-9.4*
   a) Surface Inlet *#3-9.4*
   b) Surface Outlet
   c) Bottom (deepest) *8.4 (46')*
   d) Mid Depth *10.5 (24')*

   D.O. Profile Completed /X/
   Location *See map*
2. pH *7.0* Location Sampled *See map*
3. Conductivity *10 um HOS* Location Sampled *See map*
4. Hardness *17 mg./L* Location Sampled *See map*
5. Alkalinity *7 mg./L* Location Sampled *See map*

III. Biological Data

1. Plankton - Vertical Tow

Net & Cup Size	0.5 m
Depth of Tow	55'
No. of Samples	1
Location	See map

2. Benthos:

Type of Gear	
No. of Samples	
Depth	
Bottom Type	

3. Rooted Aquatic Plants

Species Present	Location

	7-22-78 Set	7-23-78 Pulled
6N #1	4:55 p.m.	3:30 p.m.
6N #2	5:30 p.m	2:50 p.m.

4. Fish

Gillnet # Set 2 Length of Time

Minnow Trap # Set 4 Length of Time

	7-22-78 Set	7-23-78 Pulled
#1	4:35 p.m	3:50 p.m.
#2	4:55 p.m.	3:40 p.m.
#3	5:05 p.m.	3:10 p.m.
#4	5:15 p.m.	3:00 p.m.

5. REMARKS:

6N #1 and #2 Caught no fish

Minnow Trap #1 Cutthroat 1, Sculpins 10

Minnow Trap #2 Cutthroat 1, Sculpins 2

Minnow Trap #3 Sculpins 38

Minnow Trap #4 Sculpins 14

The outlet stream is a mass of logs and large boulders and the stream flows underground. The lake level appears to have fallen recently also about 6'.